

104-1

104-2

~106-1

108-1

~106-2

108-2

102

~110-1

~110-2

FIG. 1

PRIOR ART

206
202
204
208
210
212
214
216
218
220

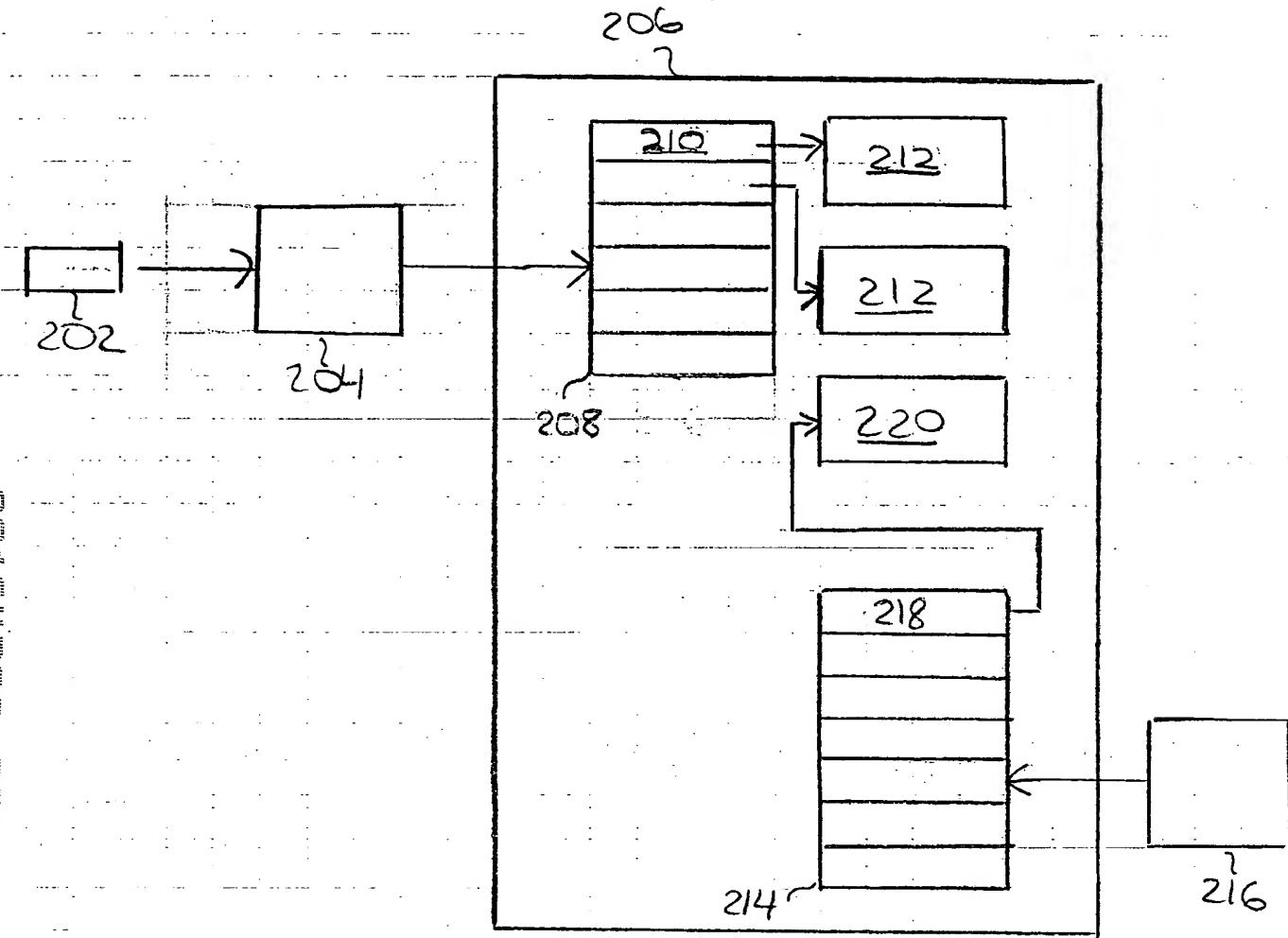


FIG. 2

PRIOR ACT

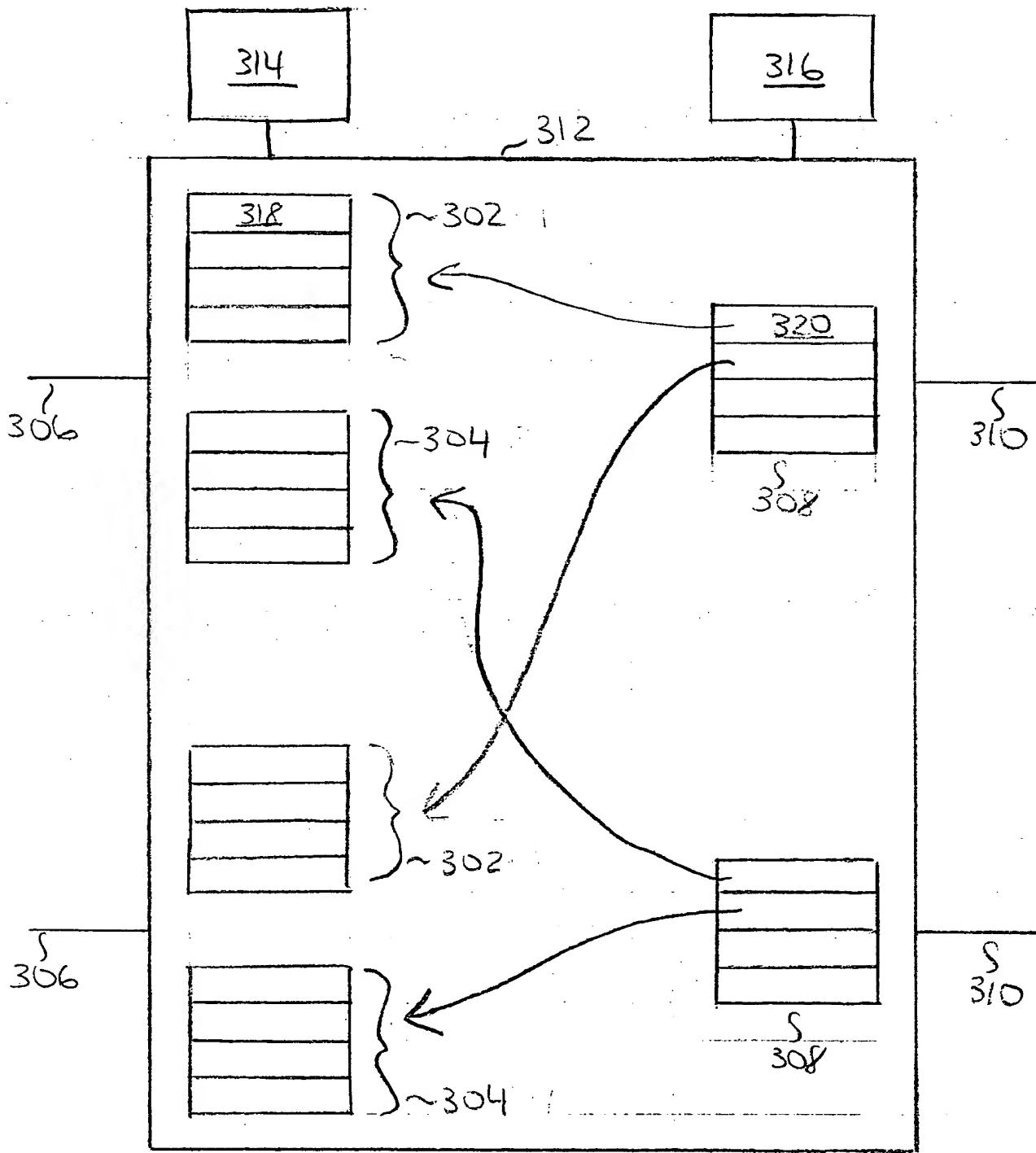


FIG. 3

402

FIG. 4

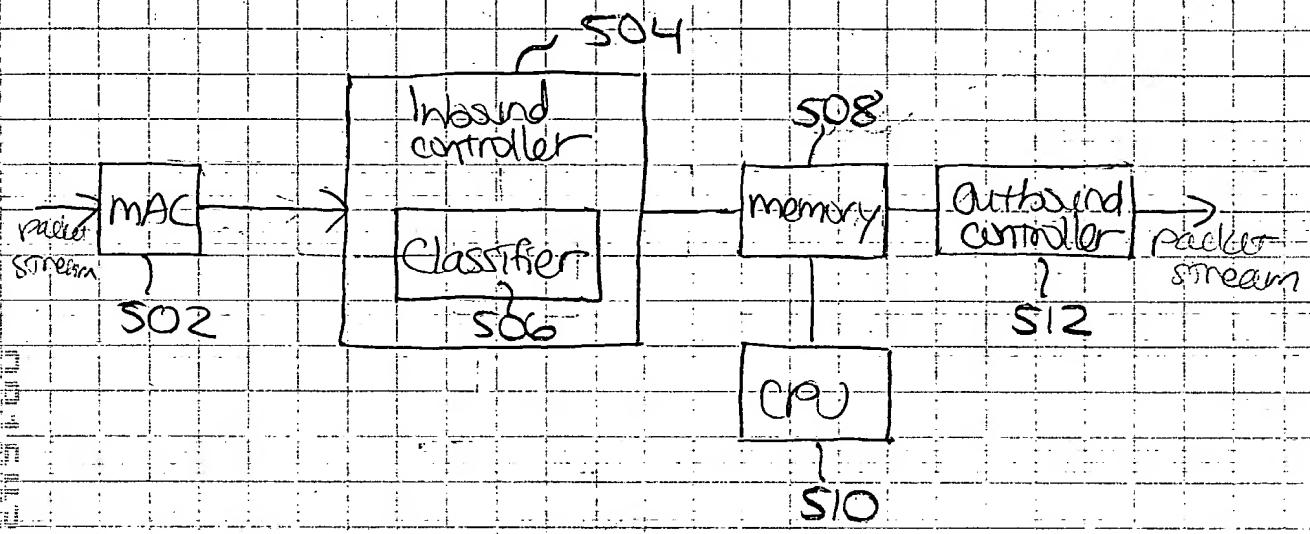


FIG. 5

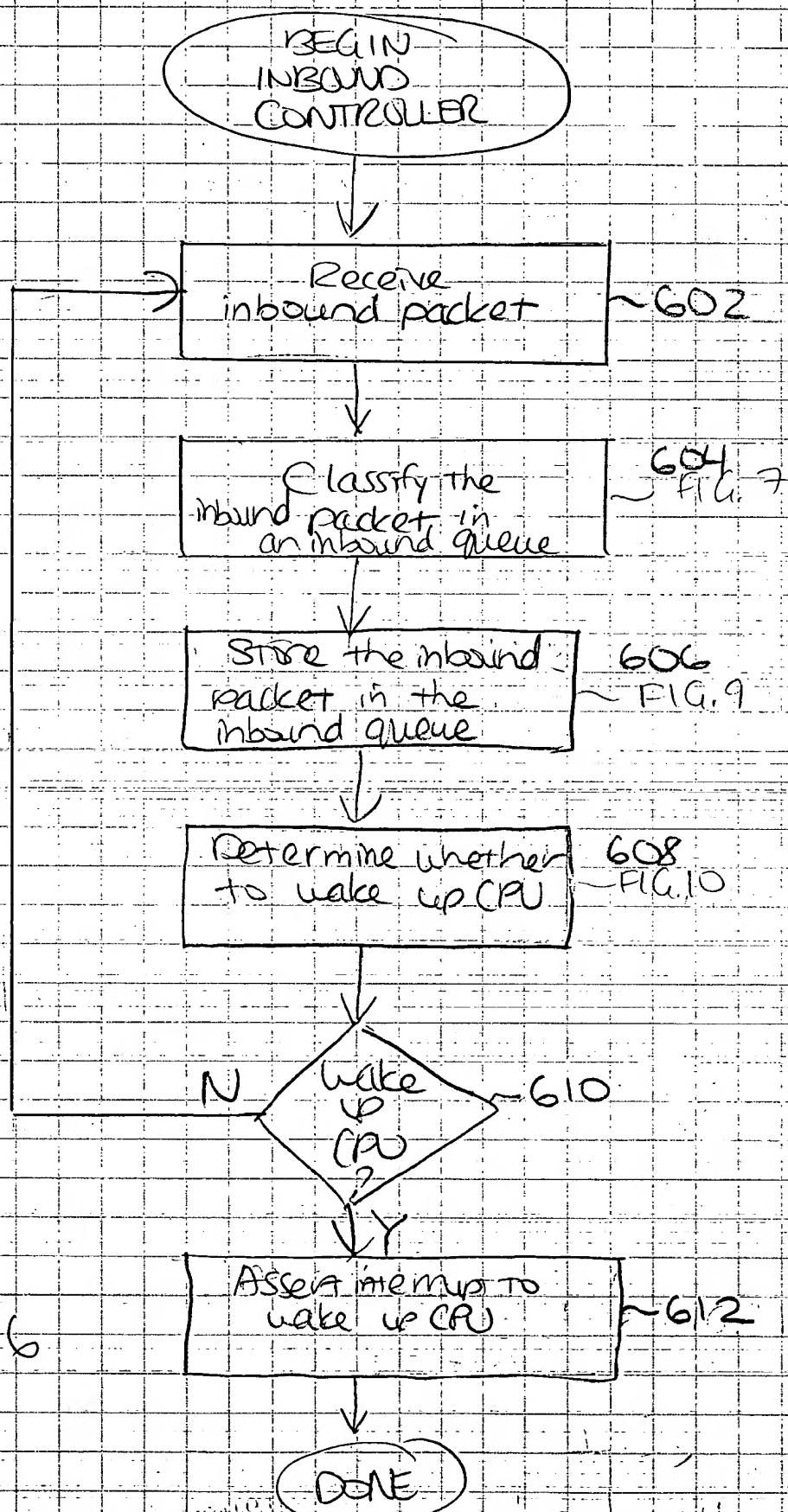


FIG. 6

Begin
classifier

↙ 604

Select inbound
packet sorting
criteria (e.g.,
dest. add, priority)

~702

Obtain packet
sorting data cor.
to the packet
sorting criteria

~704

Determine an
appropriate inbound
queue by locating
the sorting data
in an address table

~706

Done

FIG. 7

Queue ID	Dest Add	Priority
A	Port 3	2
B	Port 4	1
C	Port 3	1
D	Port 4	2

FIG.8

606

Get memory
block from free
pool

~902

Store the inbound
packet in
the memory block

~904

Store a PTR to
the memory block
in the inbound
queue

~906

FIG. 9

608

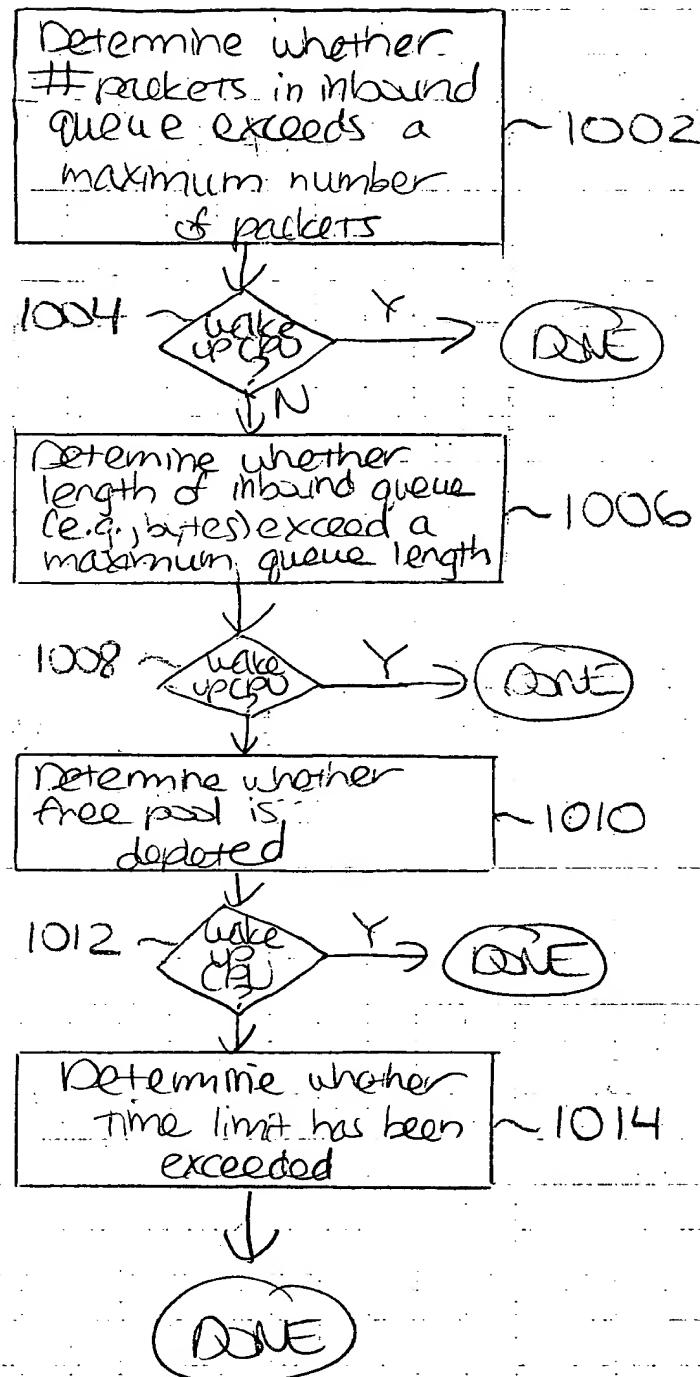


FIG. 10

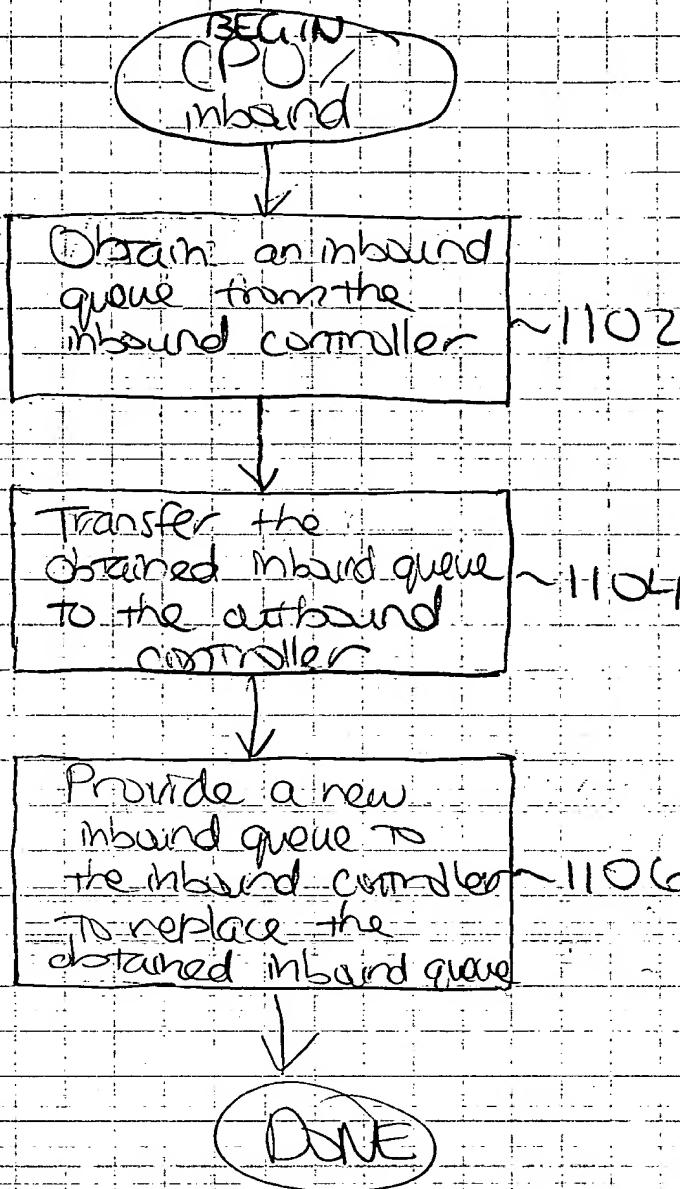


FIG. 11

FIG. 12 FIG. 13 FIG. 14

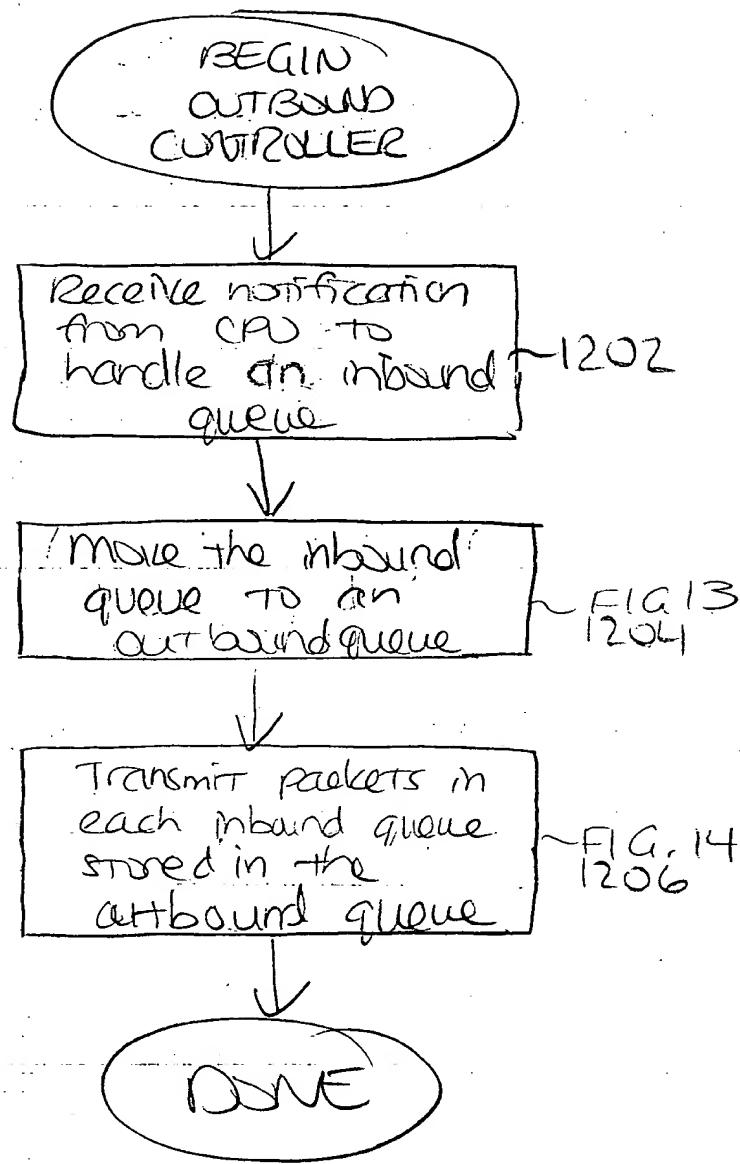


FIG. 12

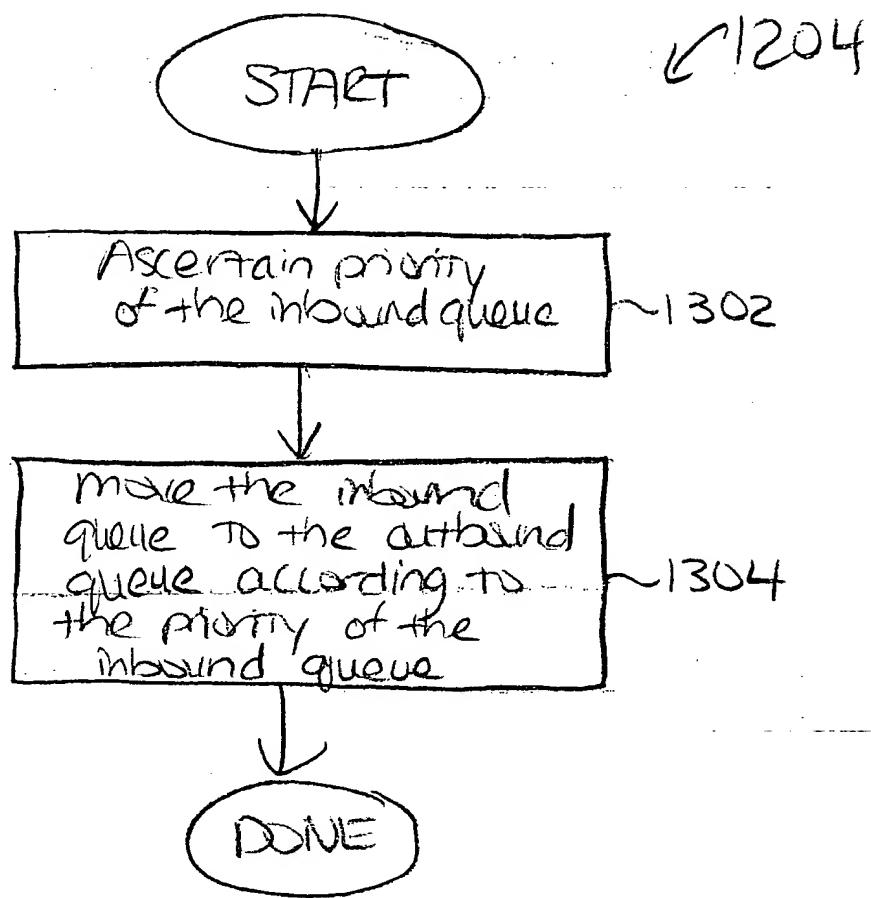
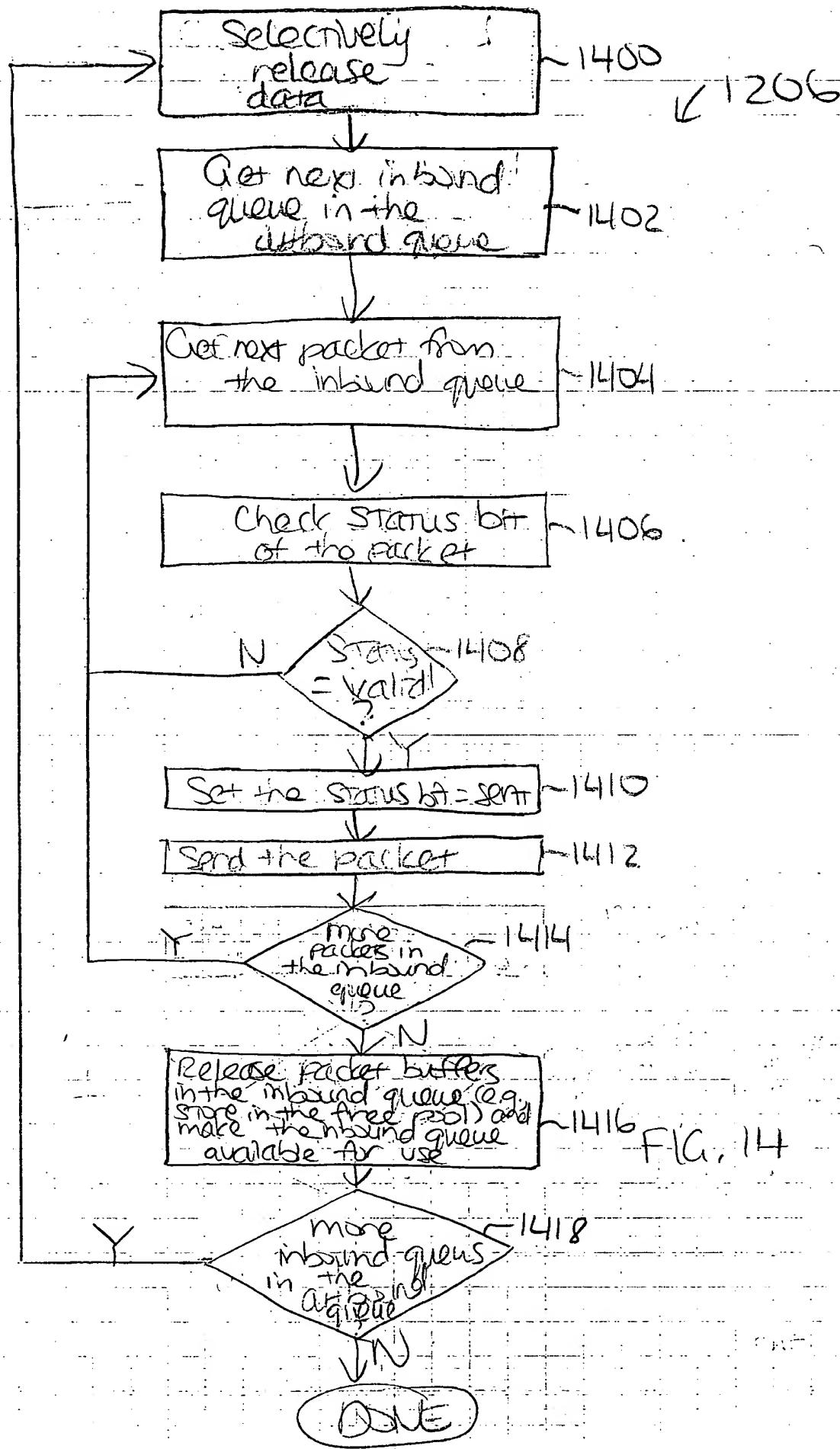


FIG. 13



REIN
CPU/
outbound

Obtained deallocated
memory (e.g. off to
an inbound queue)
from the outbound
controller ~1502

Transfer the
obtained deallocated
memory to the
inbound controller ~1504

Done

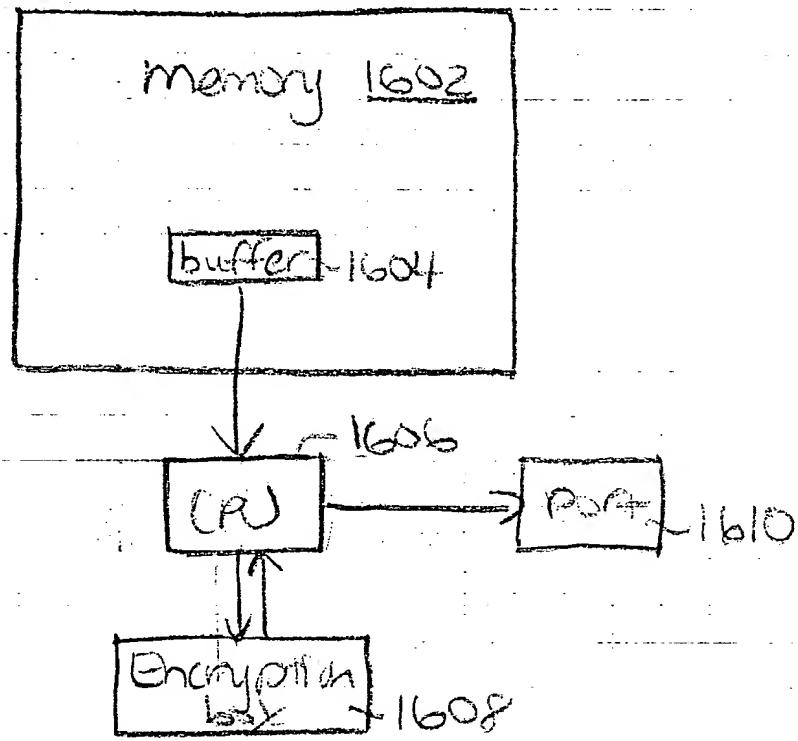


FIG.16

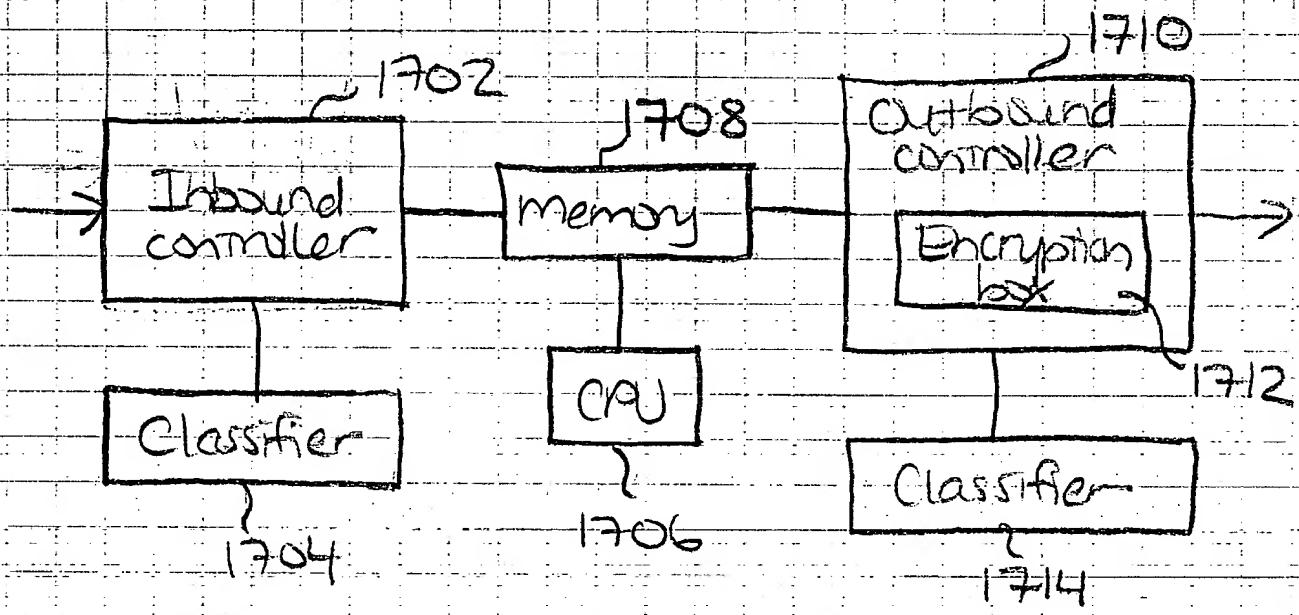


FIG. 17